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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/681,920	06/26/2001	Richard Charles Gaus JR.	RD-25376	8295
6147 75	590 07/15/2004		EXAMINER	
GENERAL ELECTRIC COMPANY			NGUYEN, PHUNG	
GLOBAL RESEARCH PATENT DOCKET RM. BLDG. K1-4A59			ART UNIT	PAPER NUMBER
NISKAYUNA,			2632	10
			DATE MAILED: 07/15/200	, ,

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)					
Office Action Summan	09/681,920	GAUS ET AL.					
Office Action Summary	Examiner	Art Unit					
	Phung T Nguyen	2632					
- The MAILING DATE of this communication Period for Reply	appears on the cover sheet wi	th the correspondence address					
A SHORTENED STATUTORY PERIOD FOR RETHE MAILING DATE OF THIS COMMUNICATION - Extensions of time may be available under the provisions of 37 CF after SIX (6) MONTHS from the mailing date of this communication. If the period for reply specified above is less than thirty (30) days, a lf NO period for reply is specified above, the maximum statutory period for reply within the set or extended period for reply will, by six Any reply received by the Office later than three months after the mearned patent term adjustment. See 37 CFR 1.704(b).	ON. R 1.136(a). In no event, however, may a roll. reply within the statutory minimum of thirteriod will apply and will expire SIX (6) MON tatute, cause the application to become AB	eply be timely filed y (30) days will be considered timely. THS from the mailing date of this communication. ANDONED (35 U.S.C. § 133).					
Status							
1) Responsive to communication(s) filed on 2	<u> </u>						
2a) This action is FINAL . 2b) ⊠	This action is FINAL . 2b)⊠ This action is non-final.						
3) Since this application is in condition for allo	- ' '						
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.							
Disposition of Claims							
4) Claim(s) 1-25 is/are pending in the applica	Claim(s) <u>1-25</u> is/are pending in the application.						
4a) Of the above claim(s) is/are with	4a) Of the above claim(s) is/are withdrawn from consideration.						
5)⊠ Claim(s) <u>1-20</u> is/are allowed.	Claim(s) <u>1-20</u> is/are allowed.						
6)⊠ Claim(s) <u>21,23 and 25</u> is/are rejected.	Claim(s) 21,23 and 25 is/are rejected.						
7)⊠ Claim(s) <u>22 and 24</u> is/are objected to.	Claim(s) <u>22 and 24</u> is/are objected to.						
8) Claim(s) are subject to restriction ar	Claim(s) are subject to restriction and/or election requirement.						
Application Papers							
9)☐ The specification is objected to by the Exar	niner.						
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
Priority under 35 U.S.C. § 119							
12) Acknowledgment is made of a claim for force a) All b) Some * c) None of: 1. Certified copies of the priority docum 2. Certified copies of the priority docum 3. Copies of the certified copies of the application from the International Bu * See the attached detailed Office action for a	nents have been received. nents have been received in A priority documents have been ireau (PCT Rule 17.2(a)).	pplication No received in this National Stage					
Attachment(s)							
1) Notice of References Cited (PTO-892)	4) Intention 9	Summary (PTO-413)					
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) Paper No(s)/Mail Date							
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 5) Notice of Informal Patent Application (PTO-152) 6) Other:							

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DETAILED ACTION

Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims 21, 23, and 25 are rejected under 35 U.S.C. 103(a) as being unpatentable over Hershey et al. [U.S. Pat. 5,844,949] in view of Tsunehiro [U.S. Pat. 6,304,761]

Regarding claim 21: Hershey et al. teach the known concept of transmitting commands and data on the power line (col. 2, lines 9-15) except for determining if a dotting portion is present in the signal. However, determining if a dotting portion is present in the signal (such as 10101010...) is old and known in the art as taught by Tsunehiro (fig. 2, col. 5, lines 20-30). In view of the teachings of Hershey et al. and Tsunehiro, it would have been obvious to the skilled artisan to combine the teachings of Tsunehiro and Hershey et al. so that there is less possibility of loss of communications due to interference.

Regarding claim 23: Hershey et al. disclose a local controller (figure 3, col. 5, lines 45-55).

Regarding claim 25: Hershey et al. disclose the signal comprising a GHM signal (col. 3, lines 10-18).

Allowable Subject Matter

3. Claims 1-20 are allowed.

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Claims 22 and 24 are objected to as being dependent upon a rejected base claim, but 4.

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would be allowable if rewritten in independent form including all of the limitations of the base

claim and any intervening claims.

Conclusion

5. The prior art made of record and not relied upon is considered pertinent to applicant's

disclosure.

a. Childress [U.S. Pat. 4,821,292] discloses adaptive limiter/detector which changes time

constant upon detection of dotting pattern.

6. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Phung T Nguyen whose telephone number is 703-308-6252. The

examiner can normally be reached on 8:00am-5:30pm Mon thru. Friday, with alternate Friday

off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Daniel J. Wu can be reached on 703-308-6730. The fax numbers for the organization

where this application or proceeding is assigned are 703-305-3988 for regular communications

and 703-872-9314 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding

should be directed to the receptionist whose telephone number is 703-306-0377.

Examiner: Phung Nguyen

Phy Ngyer

Date: July 9, 2004